(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number
WO 03/080251 A1

(51) International Patent Classification[7]: B04B 11/02

(21) International Application Number: PCT/SE03/00110

(22) International Filing Date: 23 January 2003 (23.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0200872-0 21 March 2002 (21.03.2002) SE

(71) Applicant *(for all designated States except US)*: **ALFA LAVAL CORPORATE AB** [SE/SE]; Rudeboksvägen 3, S-221 00 Lund (SE).

(72) Inventors; and

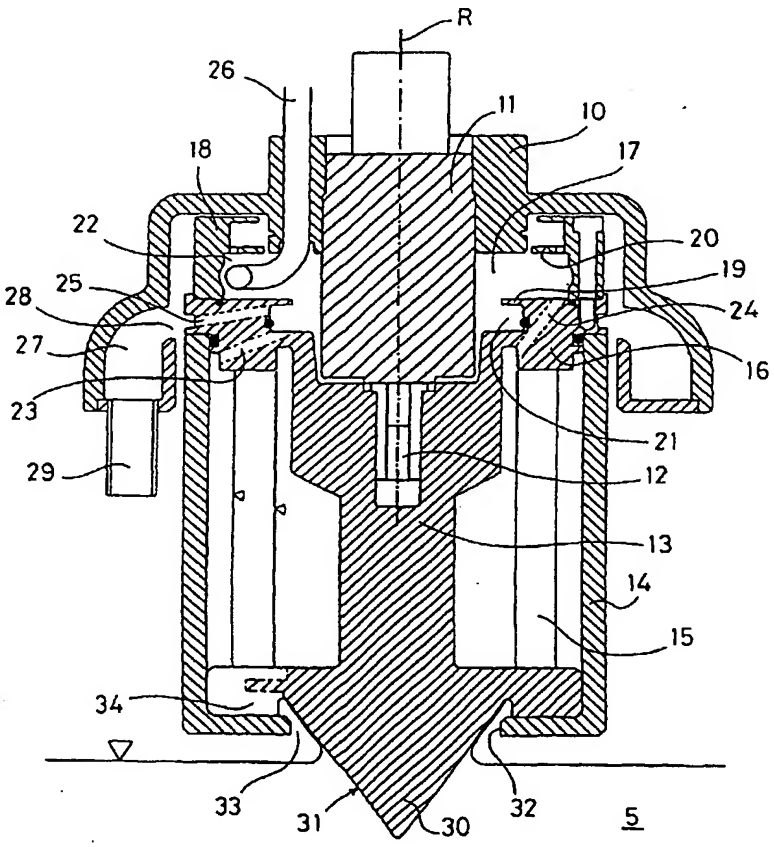
(75) Inventors/Applicants *(for US only)*: **BORGSTRÖM, Leonard** [SE/SE]; Rönnbärsvägen 8, S-135 42 Tyresö (SE). **CARLSSON, Claes-Göran** [SE/SE]; Skogshemsvägen 63 B, S-146 36 Tullinge (SE). **FRANZÉN, Peter** [SE/SE]; Månstorpsvägen 22, S-145 45 Tullinge (SE). **INGE, Claes** [SE/SE]; Kristinavägen 15, S-131 50 Saltsjö-Duvnäs (SE). **LAGERSTEDT, Torgny** [SE/SE]; Döbelnsgatan 89, S-113 52 Stockholm (SE). **MOBERG, Hans** [SE/SE]; Björngårdsgatan 16 B, S-118 52 Stockholm (SE). **SZEPESSY, Stefan** [SE/SE]; Byfogdevägen 8, S-141 39 Huddinge (SE).

(74) Agent: **CLIVEMO, Ingemar**; Alfa Laval Corporate AB, Hans Stahles väg, S-147 80 Tumba (SE).

(81) Designated States *(national)*: AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: CENTRIFUGAL SEPARATOR



(57) Abstract: A centrifugal separator has a centrifugal rotor that is rotatable about a vertical axis (R) and has both a rotor body (14) for separation of two liquids, having different densities, and a pumping member (13) that is designed to pump via the outside of a conical body (30) a mixture of said two liquids into the rotor body from a surface layer of a liquid body (5) situated below the rotor body (14).

WO 03/080251 A1